



2811 \$1
PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of Michael F. Stumborg et al.

Serial No.: 09/137,084

Group Art Unit: 2811

Filed: August 20, 1998

Examiner: Not yet assigned

For: ELECTRONIC DEVICES WITH BARIUM FILM AND PROCESS FOR MAKING SAME

Docket No.: 79329

AMENDMENT TRANSMITTAL LETTER (Large Entity)

TO THE ASSISTANT COMMISSIONER FOR PATENTS:

Transmitted herewith is an amendment in the above-identified application.

The fee has been calculated and is transmitted as shown below.

CLAIMS AS AMENDED

	CLAIMS REMAINING AFTER AMEND.		HIGHEST NO. PREV. PAID FOR		NUMBER EXTRA CLAIMS PRESENT		RATE	ADDITIONAL FEE
TOTAL CLAIMS	23	-	20	=	3	x	\$18.00	\$54.00
INDEP. CLAIMS	6	-	4	=	2	x	\$78.00	\$156.00
Multiple Dependent Claims (check if applicable) []								\$0.00
TOTAL ADDITIONAL FEE FOR THIS AMENDMENT								\$210.00

- [] No additional fee is required for amendment.
[X] Please charge Deposit Account No. 08-0814 in the amount of \$210.00. (A duplicate copy of this sheet is enclosed.)
[] A check in the amount of 04 to cover the filing fee is enclosed.
[] The Commissioner is hereby authorized to charge payment of the following fees associated with this communication or credit any overpayment to Deposit Account No. 08-0814. (A duplicate copy of this sheet is enclosed.)
[] Any additional fees required under 37 C.F.R. 1.16.
[] Any patent application processing fees under 37 C.F.R. 1.17.

Dated:

July 7, 1999

James B. Bechtel, Esq.
Reg. No. 29,890

Attorney for the Applicant(s)
Office of Counsel (Patents)
Naval Surface Warfare Center-Dahlgren Division
17320 Dahlgren Road
Dahlgren, VA 22448-5100
540-653-8061 (Telephone) 540-653-7816 (Fax)

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:)
Michael F. STUMBORG, et al.)
Serial No.: 09/137,084) Group Art Unit: 2811
Filed: August 20, 1998) Examiner: not yet assigned
For: ELECTRONIC DEVICES WITH)
BARIUM BARRIER FILM AND)
PROCESS FOR MAKING SAME)

PRELIMINARY AMENDMENT

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

Prior to examination, kindly amend the above-identified application as follows:

IN THE CLAIMS:

2. (Amended) A semiconductor device comprising:
a substrate material having a surface;
a barrier film on said substrate surface, said barrier film
having a [monolayer of] layer comprising elemental barium atoms
attached to said surface;
a conductor on said barrier film, said conductor having a
tendency to diffuse into said substrate material if in direct
contact therewith; and wherein said [monolayer] layer comprising
elemental barium atoms serves as a barrier, inhibiting diffusion
of the conductor into the substrate material.

Please add the following new claims:

-- 21. A semiconductor device according to claim 1, wherein
said barrier film comprise a plurality of contiguous monolayer

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